36

Mr. Justice McCord on the Mean Temperature of Quebec.

nicated to me by his son; this journal appears to have been kept with a degree of care and attention which nothing but a sincere love of science, and much leisure, could have attained. All the natural phenomena are duly recorded, such as the first fall of snow, the freezing of rivers, first winter roads, the breaking up of the ice in spring, the blooming of flowers, forest and fruit trees, besides the daily temperature, extremes of heat and cold, &c.; but, unfortunately, with the exception of the last mentioned observations (extremes) the whole, as a comparative table, is without value, because the observer never adopted any one daily fixed hour for observation; the hours of observation of no one day corresponding with those of any subsequent one. Thus, the observations of many years, made at a place admirably well adapted, from its situation, for giving a correct mean temperature for the district, uninfluenced by those sources of error inseparable from observations made in a city, have been rendered unavailable for the purposes of tabular comparisons. But in other respects, the table itself is a valuable record, and executed with the utmost care : the mechanical execution alone, is a curiosity. From some of the tables prefaced by this gentleman, I have compiled one, proving the matter of the fact above recorded, of the "great reduction in the range of the thermometer" at present, which. I think, will prove interesting. I will send it to you with others on a future day.

The tables herewith sent are compiled from manuscript tables kept by the Rev. Dr. Sparks, of Quebec. and kindly lent me for that purpose by the Rev. Dr. Wilkie, of the same place. These tables, running through a period of nearly a quarter of a century, were also without any summary; and after much labour. through several years, I found by a note in the journal, that the instruments used up to that period were defective. The years now forwarded you, may be depended upon according to the Doctor's statement, correct instruments having been substituted.

You will perceive that the results obtained by Dr. Sparks differ considerably from those given by Dr. Kelly, in consequence of the selection of times of observation by the Rev. Doctor, which do not give the mean of the twenty-four. On a future occasion, when I send you his barometric tables, I will shew that by applying the proper correction for those hours, as obtained by the hourly observations made at St. Helens Island, for the N. H. Society of this city, that there will not be much difference in the general result, thereby proving the correctness of Dr. S's observations,

I have the honor to be, your's

Constants of a

J. S. McCord.

			وميناكي والشابية والتجريب البين والمتعي والمعاوي والمعاوي
TABLE Of the MEAN TEMPERATURE Of QUEBEC, Lat. 46° 49' N., Long. 71° 16' W., for 10 years, compiled from MS. Journal of late Rev. Dr. SPARKS.	Resume.	0	881888882222
		Coldest.	(++92) [14] Jan
		0	83882888386 ++++++++++++
		yasımısW .VaΩay.	39.30 27(t, June, 149 14.49 18 & J June, 149 42.93 224 Aug., 149 30.49 324 Aug., 149 41.06 3rd Aug., 148 31.14 224 July, 148 31.74 151 July, 149 33.74 151 July, 149 38.61 19th July, 149 378, 40.21 11th July, 149 778, 40.21 11th July, 149
		Mean Tem-	39.30 41.40 41.49 39.49 39.49 39.49 30.49 30.49 30.49 30.49 30.49 30.49 30.49 40.21 40.21
			0 1 10 10 10 10 10 10 10 10 10 10 10 10
		Year.	
			1810) 1810, 1811, 1813, 1815, 1815, 1817, 1817, 1818, 1818,
	1818.	mM 20 xeM qm2T	27 27 27 27 27 27 27 27 27 27 27 27 27 2
		Mean Tem.	8.82 6.10 54 01 65.19 57.95 54 01 65.19 57.10 57.10 15.14 15.14 10.51
	1315. 1816. 1817.	Temp.	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		persture.	1 1 ++++++++
		Temp. Mean Tem.	
		perature. Max & Min	
		Mean Tem-	2012.74
		mM X xEM	
		Mean Tem-	1111110.97 11111355 882721 882721 683726 8876350 8866350 8866350 17654 10 17654 10 165.2 10015.2
	1814.	m. 38 xeM. Temp.	++++++++++
		Mean Tem. perature.	$\begin{array}{c} -26 \\ -26 \\ 12 \\ -12 \\ 17 \\ 71 \\ -12 \\ 17 \\ 71 \\ -12 \\ 37 \\ 23 \\ 56 \\ 93 \\ -13 \\ 155 \\ 155 \\ -13 \\ 155 \\ 155 \\ -13 \\ 13 \\ 13 \\ 11.12 \\ \end{array}$
	1813.	mi M 38 x 6M in Temp.	
		Mean Tein- perature,	-28 8.13 -2616.26 -2616.26 -2616.26 -52801.22 +7806.23 +78063.23 +8063.23 +8063.23 +7667.48 +7667.48 +7667.48 +7667.48 -816.71 -316.71 -316.71
	1812.	m.M. 38 X.8.M. Gino.T	
		• perature.	8.55 11.13 1
	1811.	Temp.	4428888886032242 8 422826032225
		perature.	8938668326884 [8]
		.dmaT Mean Lem-	26 13.58 22 18.46 46 31.58 46 31.58 56 13.23 56 13.23 56 13.58 88 467.11 45 31.38 45
	1810.	perature.	│ │ │ │ ┿ ╈ ╈ ╈ ┿ ┿ ┿ ┿ ┿ ┤
		-тэТ пяэМ	-26 10 21 -23 14 93 -23 14 93 -13 37 24 +91 54 03 +99 67 31 +99 67 31 +75 42 73 +75 42 73 +75 42 73 +75 42 73 +75 42 73 +75 42 71 +75 41 71 +75 41 71 +75 41 71 +75 41
	1803.	niM 26 xBM .qm9T	
		Mean Tem-	7.60 8.43 8.43 8.43 8.43 55.40 64.32 51.55 51.55 21.35 21.35 21.35 21.35 21.35 21.35 21.35
TABLE O		ан т. к	January, February, March, April, May, Juno, Juno, Juno, Juno, Juno, Juno, Juno, May, Norember, Norember, December, Mean,